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Table S1. Unadjusted odds ratios and 95% confidence intervals for the association between psychosocial problems and classes of constipation and soiling.

	Constipation alone	Soiling alone	Constipation with soiling	
	OR [95% CI]	OR [95% CI]	OR [95% CI]	P-value
<i>Temperament at 2 years (TTS)</i>				
Activity (n= 7,994)	1.06 [0.98-1.16]	1.17 [1.04-1.32]	1.09 [0.95-1.25]	0.020
Adaptability (n= 7,963)	1.12 [1.03-1.22]	1.24 [1.10-1.39]	1.22 [1.09-1.38]	<0.001
Intensity (n= 7,989)	1.21 [1.11-1.32]	1.07 [0.95-1.21]	1.20 [1.06-1.35]	<0.001
Mood (n= 7,994)	1.27 [1.16-1.38]	1.31 [1.16-1.48]	1.43 [1.27-1.61]	<0.001
Persistence (n= 7,989)	1.08 [0.99-1.18]	1.15 [1.03-1.28]	1.27 [1.12-1.44]	<0.001
<i>Temperament at 3 years (EAS)</i>				
Emotionality (n= 8,025)	1.24 [1.14-1.35]	1.17 [1.05-1.32]	1.31 [1.17-1.48]	<0.001
Activity (n= 8,028)	0.90 [0.83-0.98]	0.97 [0.85-1.11]	0.81 [0.72-0.91]	<0.001
Shyness (n= 8,025)	1.13 [1.03-1.23]	0.92 [0.82-1.04]	1.05 [0.92-1.21]	0.011
Sociability (n= 8,021)	0.98 [0.90-1.07]	1.17 [1.04-1.32]	1.04 [0.91-1.19]	0.052
<i>Behaviour & emotional problems at 3½ years (Revised Rutter scale) (n= 8,039)</i>				
Emotional	1.27 [1.17-1.38]	1.20 [1.07-1.35]	1.41 [1.24-1.59]	<0.001
Behaviour	1.25 [1.15-1.36]	1.55 [1.39-1.74]	1.64 [1.46-1.85]	<0.001
Conduct	1.10 [1.01-1.21]	1.38 [1.24-1.54]	1.33 [1.18-1.50]	<0.001
Hyperactivity	1.06 [0.97-1.15]	1.29 [1.15-1.44]	1.23 [1.07-1.42]	<0.001
Prosocial	1.00 [0.91-1.09]	1.37 [1.22-1.54]	1.22 [1.07-1.40]	<0.001
<i>Temper tantrums at 3½ years (n= 7,983)</i>				
Once a day or most days	1.05 [0.82-1.33]	1.41 [1.04-1.92]	2.00 [1.48-2.68]	<0.001
<i>Sleep problems at 3½ years</i>				
No regular sleep routine (n= 8,002)	1.46 [1.08-1.98]	0.76 [0.43-1.34]	2.21 [1.52-3.23]	<0.001

Refused to go to bed (n= 8,021)	1.51 [1.27-1.79]	1.32 [1.04-1.67]	1.53 [1.18-1.98]	<0.001
Difficulty going to sleep (n= 8,021)	1.53 [1.29-1.82]	1.40 [1.10-1.78]	1.58 [1.22-2.06]	<0.001
Nightmares (n= 8,021)	1.64 [1.38-1.95]	1.17 [0.91-1.50]	1.53 [1.17-1.99]	<0.001
Gets up after put to bed (n= 8,021)	1.33 [1.12-1.58]	1.62 [1.28-2.06]	1.46 [1.07-1.99]	<0.001
Woken in the night (n= 8,021)	1.39 [1.14-1.70]	1.62 [1.21-2.17]	1.46 [1.07-1.99]	<0.001
<i>Exposure to stressful life events between 2½ years & 3 years 11 months (n= 7,944)</i>				
Stressful life events score	1.28 [1.17-1.38]	1.08 [0.96- 1.22]	1.36 [1.21-1.54]	<0.001

The sample size for each analysis is shown in brackets after the variable name.

Table S2. Post-hoc comparisons examining whether the psychosocial risk factors discriminate between the atypical classes

	Unadjusted models			Adjusted models		
	Soiling alone vs. constipation & soiling	Constipation & soiling vs. constipation alone	Constipation alone vs. soiling alone	Soiling alone vs. constipation & soiling	Constipation & soiling vs. constipation alone	Constipation alone vs. soiling alone
	OR [95% CI]	OR [95% CI]	OR [95% CI]	OR [95% CI]	OR [95% CI]	OR [95% CI]
<i>Temperament at 2 years (TTS)¹</i>						
Activity	1.08 [0.89-1.30]	1.02 [0.86-1.21]	0.91 [0.79-1.04]	1.07 [0.87-1.32]	1.01 [0.84-1.21]	0.92 [0.80-1.07]
Adaptability	1.01 [0.86-1.20]	1.09 [0.94-1.26]	0.91 [0.79-1.03]	0.96 [0.79-1.16]	1.06 [0.90-1.25]	0.98 [0.85-1.14]
Intensity	0.90 [0.75-1.07]	0.99 [0.85-1.15]	1.13 [0.98-1.29]	0.93 [0.76-1.12]	0.99 [0.84-1.17]	1.09 [0.94-1.26]
Mood	0.92 [0.77-1.09]	1.13 [0.97-1.31]	1.03 [0.90-1.18]	0.89 [0.73-1.10]	1.11 [0.93-1.31]	1.01 [0.87-1.18]
Persistence	0.90 [0.76-1.07]	1.18 [1.01-1.37]	0.94 [0.83-1.07]	0.86 [0.71-1.05]	1.09 [0.91-1.30]	1.07 [0.92-1.24]
<i>Temperament at 3 years (EAS)¹</i>						
Emotionality	0.89 [0.75-1.06]	1.06 [0.91-1.22]	1.06 [0.93-1.21]	0.90 [0.73-1.09]	1.11 [0.93-1.32]	1.01 [0.87-1.17]
Activity	1.20 [1.00-1.44]	0.90 [0.78-1.04]	0.92 [0.80-1.07]	1.23 [1.01-1.51]	0.90 [0.76-1.06]	0.90 [0.77-1.05]
Shyness	0.88 [0.72-1.07]	0.93 [0.79-1.10]	1.22 [1.06-1.40]	0.86 [0.69-1.07]	0.93 [0.77-1.12]	1.25 [1.07-1.46]
Sociability	1.13 [0.93-1.37]	1.06 [0.90-1.25]	0.84 [0.73-0.96]	1.04 [0.84-1.28]	1.01 [0.84-1.21]	0.95 [0.82-1.11]
<i>Behaviour & emotional problems at 3½ years (Revised Rutter scale)¹</i>						
Emotional	0.86 [0.72-1.01]	1.11 [0.95-1.29]	1.06 [0.93-1.20]	0.87 [0.72-1.04]	1.05 [0.89-1.24]	1.09 [0.95-1.26]
Behaviour	1.04 [0.88-1.22]	1.31 [1.13-1.52]	0.80 [0.71-0.91]	1.08 [0.88-1.32]	1.09 [0.91-1.31]	0.85 [0.74-0.99]
Conduct	1.04 [0.86-1.27]	1.21 [1.04-1.40]	0.80 [0.70-0.91]	1.09 [0.88-1.35]	1.06 [0.87-1.28]	0.87 [0.75-1.00]
Hyperactivity	1.12 [0.93-1.35]	1.16 [0.98-1.38]	0.82 [0.72-0.94]	1.08 [0.87-1.33]	1.05 [0.87-1.27]	0.89 [0.76-1.03]
Prosocial	0.95 [0.80-1.11]	1.23 [1.04-1.45]	0.73 [0.64-0.83]	0.96 [0.79-1.17]	1.18 [0.99-1.41]	0.88 [0.76-1.02]

<i>Temper tantrums at 3½ years¹</i>						
Once a day or most days	0.71 [0.46-1.09]	1.90 [1.30-2.80]	0.74 [0.52-1.05]	0.67 [0.41-1.10]	2.11 [1.35-3.30]	0.71 [0.47-1.06]
<i>Sleep problems at 3½ years²</i>						
No regular sleep routine	0.34 [0.17-0.70]	1.52 [0.94-2.46]	1.93 [1.06-3.51]	0.36 [0.16-0.81]	1.36 [0.78-2.37]	2.01 [1.04-3.90]
Refused to go to bed	0.86 [0.60-1.24]	1.02 [0.74-1.39]	1.14 [0.87-1.49]	1.02 [0.66-1.58]	0.90 [0.61-1.32]	1.09 [0.80-1.48]
Difficulty going to sleep	0.89 [0.61-1.28]	1.03 [0.75-1.42]	1.09 [0.84-1.43]	0.92 [0.60-1.41]	1.01 [0.70-1.46]	1.07 [0.79-1.46]
Nightmares	0.76 [0.52-1.11]	0.93 [0.68-1.29]	1.40 [1.06-1.85]	0.77 [0.50-1.19]	0.99 [0.68-1.44]	1.31 [0.96-1.80]
Gets up after put to bed	1.02 [0.71-1.47]	1.19 [0.87-1.64]	0.82 [0.63-1.07]	1.02 [0.66-1.57]	1.24 [0.85-1.82]	0.79 [0.58-1.07]
Woken in the night	1.11 [0.71-1.73]	1.05 [0.72-1.53]	0.86 [0.62-1.19]	1.12 [0.67-1.86]	1.00 [0.65-1.54]	0.89 [0.62-1.29]
<i>Exposure to stressful life events between 2½ years & 3 years 11 months</i>						
Stressful life events score	0.79 [0.67-0.94]	1.07 [0.93-1.24]	1.18 [1.03-1.34]	0.83 [0.68-1.02]	1.07 [0.90-1.27]	1.12 [0.96-1.31]